Convoluted Braided PTFE Tubing

Temperature Limitations
Usable from -70°C to +260°C.
Note: Maximum working pressures are reduced at elevated temperatures above 150°C.

Vacuum Limitations
For hose sizes up to 2" HW convoluted products, they are usable at vacuum levels up to -0.9 bar at 150°C. Note: Vacuum resistance decreases by 1% for each degree above 150 °C.

Available PTFE Liner Grades
- Natural
- Antistatic

Purpose of Natural Convoluted SS Braided Hose
This general-purpose hose is meticulously designed to meet a broad range of application requirements. It features a high-tensile grade 304 stainless steel wire braid, providing maximum protection against internal pressure and external abrasion. A stainless steel 316 braid is also available upon request for applications requiring additional resistance to corrosion.
Optional: Polypropylene, PVDF & Aramid Braid

Purpose of Antistatic Convoluted SS Braided Hose
The AS grade is crucial in applications where there is a risk of electrostatic charge build-up on the PTFE tube's inner surface, which could discharge through the tube wall. It is essential for handling:

- Twin or multi-phase media
- Non-mixing media (e.g., powder in air, water droplets in steam, gases, or oil)
- Colloidal fluids

These conditions pose a significant risk for static charge generation and always require the AS grade hose.

FDA 21 CFR 177.1550 | USP Class 6 | ISO 10993 | EN 16643 | CE 1935/2004 | CE 10/2011 | REACH & ROHS | L929 MEM | ISO 9001



Convoluted Braided PTFE Tubing - Spec sheet

fluortubing

Heavy Wall Tube

Nominal Hose Bore		Outside diameter of braid		Minimum Bend radius		Maximum Working Pressure		Minimum Burst Pressure		Weight per unit length		PTFE wall thickness		Max Length	
inch	mm	inch	mm	inch	mm	PSI	BAR	PSI	BAR	lb/ft	Kg/Mt	inch	mm	ft	M
1/4	6	0.45	11.5	0.39	10	842	58	4210	290	0.083	0.124	0.025	0.65	570	175
5/16	8	0.53	13.5	0.59	15	842	58	4210	290	0.099	0.148	0.025	0.65	440	135
3/8	10	0.63	16.0	0.79	20	827	57	4135	285	0.128	0.191	0.025	0.65	360	110
1/2	13	0.78	20.0	1.00	25	652	45	3260	225	0.214	0.319	0.035	0.90	425	130
5/8	16	0.57	22.5	1.18	30	536	37	2680	185	0.253	0.377	0.035	0.90	360	110
3/4	20	1.16	29.6	2.00	50	508	35	2540	175	0.313	0.467	0.039	1.00	260	80
1	25	1.40	35.6	2.36	60	450	31	2250	155	0.420	0.626	0.043	1.10	325	100
1 1/4	32	1.70	43.6	3.15	80	390	27	1950	135	0.518	0.774	0.045	1.15	145	45
1 1/2	37	1.90	49.1	4.00	100	335	23	1675	115	0.735	1.096	0.057	1.45	180	55
1 3/4	45	2.33	59.1	4.72	120	305	21	1525	105	0.904	1.346	0.057	1.45	145	45
2	50	2.50	63.1	5.00	125	290	20	1450	100	0.972	1.448	0.059	1.50	130	40
2 1/4	57	3.00	75.0	6.00	150	260	18	1040	72	1.293	2.007	0.059	1.50	245	75
2 1/2	63	3.33	84.7	7.00	175	250	17	1000	68	1.545	2.300	0.059	1.50	210	65
3	74	3.70	95.7	8.00	200	205	14	820	56	2.130	3.170	0.059	1.50	180	55
4	100	5.00	128.7	9.00	225	145	10	580	40	3.150	4.689	0.079	2.00	95	30
5	125	6.10	155.7	9.25	235	73	5	300	20	4.340	6.463	0.098	2.50	65	20
6	150	7.20	183.7	10.00	250	73	5	300	20	5.170	7.701	0.098	2.50	55	17

Extra Heavy Wall Tube useable at full vacuum up to 150˚C for sizes up to and including 2" and 100˚C for the larger sizes

Nominal Hose Bore		Outside diameter of braid		Minimum Bend radius		Maximum Working Pressure		Minimum Burst Pressure		Weight per unit length		PTFE wall thickness		Max Length	
inch	mm	inch	mm	inch	mm	PSI	BAR	PSI	BAR	lb/ft	Kg/Mt	inch	mm	ft	M
5/8	16	0.95	24.1	2.36	60	536	37	2680	185	0.196	0.293	0.059	1.50	215	66
3/4	20	1.16	29.6	3.15	80	508	35	2450	175	0.412	0.613	0.059	1.50	175	54
1	25	1.40	35.1	4.00	100	450	31	2250	155	0.497	0.740	0.059	1.50	1.40	44
1 1/4	32	1.70	43.7	5.00	125	390	27	1950	135	0.698	1.039	0,059	1.50	200	62
1 1/2	37	2.20	56.1	5.50	140	335	23	1675	115	0.853	1.270	0.079	2.00	170	52
2	50	2.50	64.1	6.00	150	290	20	1450	100	1.177	1.753	0,079	2.00	100	31
2 1/2	63	3.33	84.7	8.00	200	7.00	175	1000	68	1.786	2.634	0.079	2.00	165	51
3	74	3.70	93.7	9.00	225	8.00	200	820	56	2.548	3.794	0.091	2.60	120	37
4	100	4.00	101.7	11.00	275	9.00	225	580	40	3.841	5.712	0.118	3.00	70	22

Low Convoluted Tubing Not suitable for full vacuum applications

Nominal Hose Bore		Outside diameter of braid		Minimum Bend radius		Maximum Working Pressure		Minimum Burst Pressure		Weight per unit length		PTFE wall thickness		Max Length	
inch	mm	inch	mm	inch	mm	PSI	BAR	PSI	BAR	lb/ft	Kg/Mt	inch	mm	ft	M
3/8	10	0.62	15.9	0.79	20	827	57	4135	285	0.128	0.191	0.025	0.65	365	112
1/2	13	0.77	19.6	1.50	38	652	45	3260	225	0.198	0.296	0.030	0.75	245	75
5/8	16	0.93	23.6	1.50	38	536	37	2680	185	0.241	0.359	0.032	0.80	425	130
3/4	20	1.01	25.8	2.00	50	508	35	2540	175	0.287	0.427	0.035	0.90	310	96
1	25	1.34	34.1	2.36	60	450	31	2250	155	0.399	0.596	0.037	0.95	220	68
1 1/4	32	1.65	42.1	3.15	80	390	27	1950	135	0.531	0.790	0.037	0.95	175	54
1 1/2	37	1.98	50.1	4.00	100	335	23	1675	115	0.658	0.979	0.037	0.95	265	82
2	50	2.4	62.1	5.00	125	290	20	1450	100	0.847	1.260	0.039	1.00	190	59